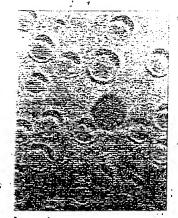


ISOLEX<sup>TM\*</sup> 300 Magnetic Cell Separator

Yielding
the
Purity...

# .... Of immaunomagnetic Selection.

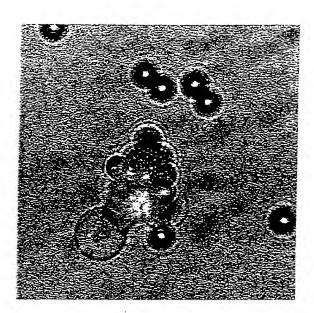


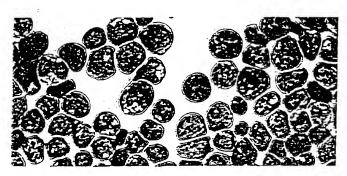
#### Specific Identification.

The process begins with the 9C5 antibody, a highly specific, high-affinity murine anti-human CD34 antibody, manufactured under GMP quality standards by Baxter. Within minutes, the 9C5 antibody coats and identifies the target CD34+ cells, leaving other subpopulations unmarked.

#### Specific Capture.

The marked stem cells are captured by resetting them with magnetic beads coated with a \*sheep anti-murine (SAM) antibody. The SAM antibody recognizes only the murine 9C5 antibody labeling the target cells, resulting in highly specific capture of CD34+ cells. In addition very efficient capture of CD34+ cells is achieved by using small 4.5 µm beads. The large total.surface area that results (2-3m² per run) means an extremely large number of binding sites for capture. The rosetted CD34+ cells are then physically separated from the unrosetted cell population by means of the preciselyengineered IsolexTM# magnet,





#### Specific Release.

After the non-target cells are drained away, a pharmaceutical grade enzyme, Chymo-Cell-T™ (Chymopapain), specifically releases the captured CD34+ cells from the beads, allowing the CD34+ cells to be recovered with a high degree of efficiency. Their surfaces are free of residual primary antibody, which might otherwise cause immunogenic reactions or sterically hidder further antibody-mediated processing.

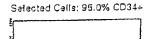




### High Purification.

By specific identification, capture and release, the Isolex<sup>TM\*</sup> system ensures both high yield and purity. This high level of CD34+ cell purity is illustrated by the FACS analysis to the left.

Consistent with this high level of purity, colony culture assays also show 50-200 fold enrichment of CFU-GM, BFUe and CFU-GEMM after Isolex™\* selection.



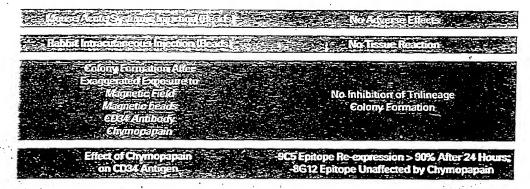


H Bankground of Sufety

Before initiating clinical trials, the Isolex<sup>TM+</sup> 300 system and its component parts passed extensive preclinical safety testing.

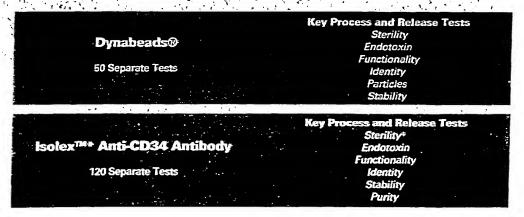
#### Preclinical Tests10

#### Results



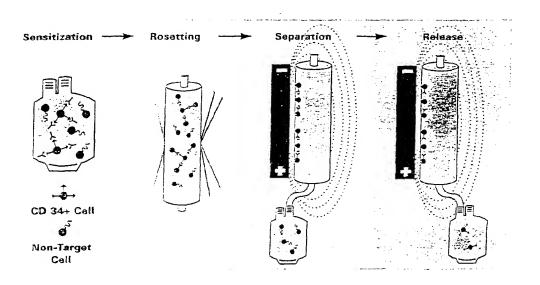
# Documented GMP. Quality

In accordance with GMP standards, a large battery of tests support the quality of the manufacturing process and the final products:



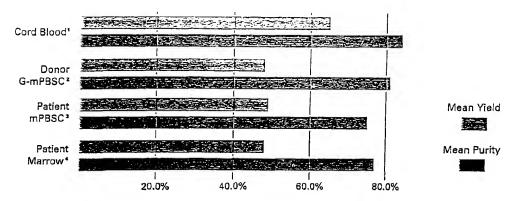
**\*NOTE:** Virus removal and inactivation are achieved by hollow-fiber filtration/column chromatography and Solvent/Detergent treatment, respectively.

## Isolex Process



# ...For Effective:

## Stem Cell Purification



lsolax<sup>IM\*</sup> 300 gives high purity and yield independently of the stam cell source. High performance is maintained even at lower starting CD34 percentages.

# Tumor Cell Depletion

STEM CELL SOURCE	ORIGIN	TARGET CELLS	LOG DEPLETION
G-mPBPC <sup>2</sup>	Donor	B Cells (CD19)	3,0
G-mPBPC <sup>5</sup>	Donor	Lymphoma cell lines	5.3
B <b>M⁵</b>	Patient	Solid Tumors	2.5

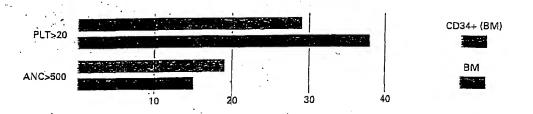
in various studies, the laglex<sup>rmo</sup> Magnetic Cell Separator has provided substantial depletion of tumor cells and other non-target cells.

# T-Cell Reduction

STEM CELL SOURCE	ORIGIN	TARGET CELLS	LOG DEPLETION	
 G-mPBPC <sup>2</sup>	Donor	CD5	3.0	_
G-mPBPC <sup>2</sup>	Donor	CD3	3.3	
G-mPBPC <sup>7</sup>	Donor	CD3	4.0	
BM <sup>8</sup>	Patient	CD3	2.5	

> T-Cell numbers are significantly reduced after positive selection with Isolex<sup>TM®</sup> system.

# Hematopoietic Reconstitution



Initial clinical studies show no significant differences in engraftment between Isolex\*\*\*\*-selected and unselected marrow\*.

Code

Description

R9722

Isolex™\* 300 Magnetic Cell Separator

Ŕ9720

Isolex™\* 300 Disposable Set

R9500

Isolex™\* 300 Stem Cell Reagent Kit

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- 2 Lane TA et al, Blood \$5(1):275 (1995)
- 3 Marolleau JP et ai, Blood 84(10):370 (1994) and Data on File, Baxter Healthcare Corp.
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- 5 Paulus U et al, Exp Hematol 22:15. (1994)
- 6 C Civin, Personal Communication, (1994) and data on File, Baxter Healthcare Corp. (data obtained using MY-10 anti-CD34 antibody)
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- B , Broun ER, Personal Communication; (1994) and data on File, Baxter Healthcare Corp.
- 9 Broun ER et al. Exp Hematol 22:362 (1994)
- 10 Data on File, Baxter Healthcare Corp.

Note: All data has been obtained using the Isolex™ 50 and Isolex™ 300 Magnetic Cell Separation systems

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